

PDV Packaging: An LAO Overview

&

A Software Preview

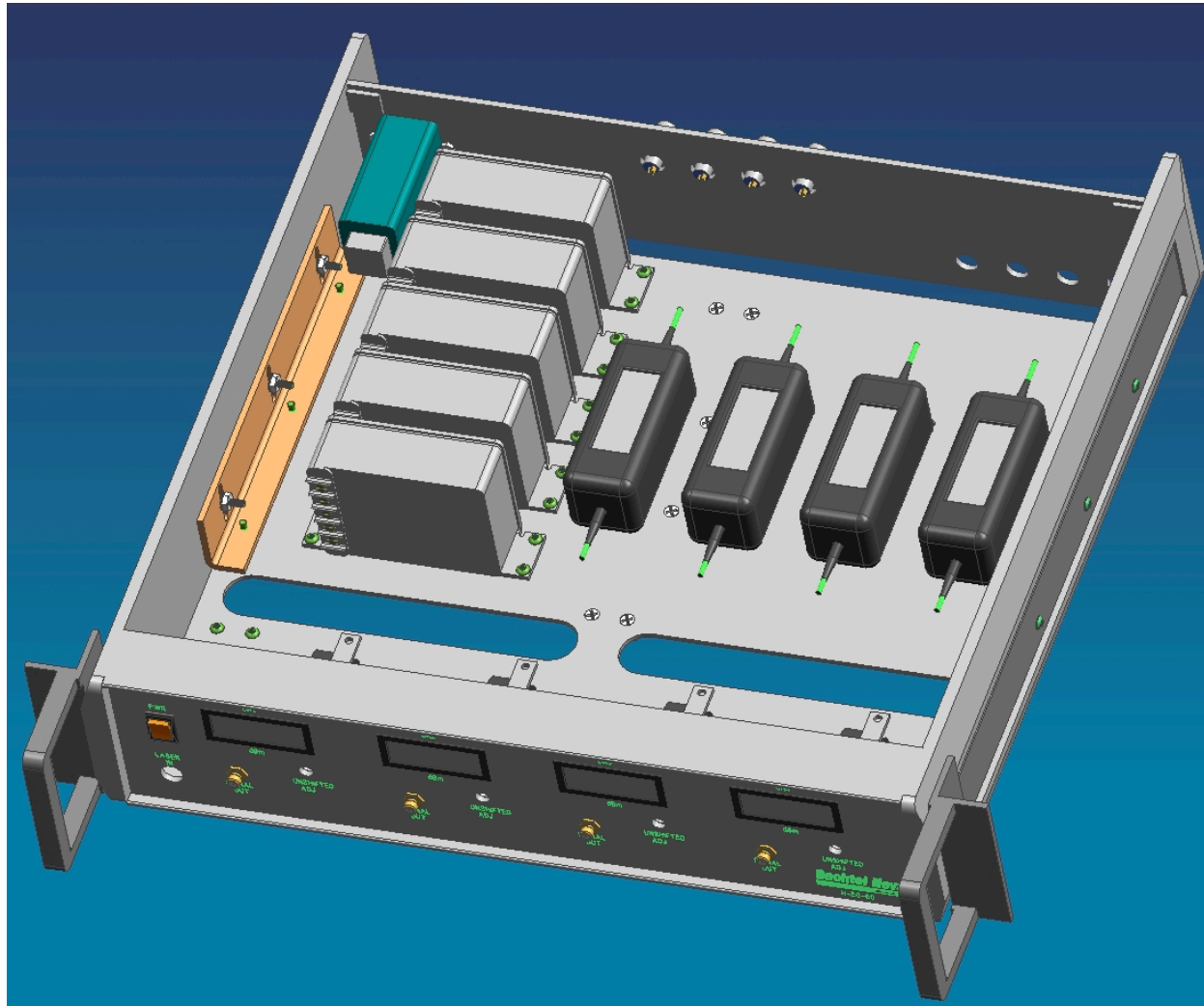
Adam J. Iverson
Diagnostic Engineer

July 20th 2006

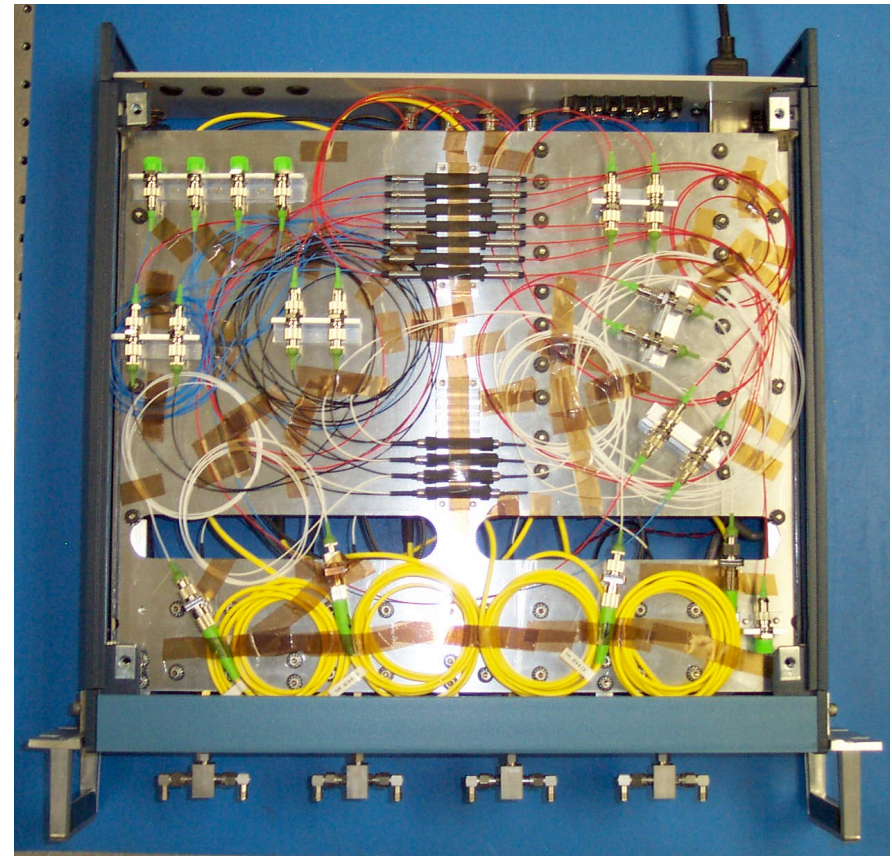
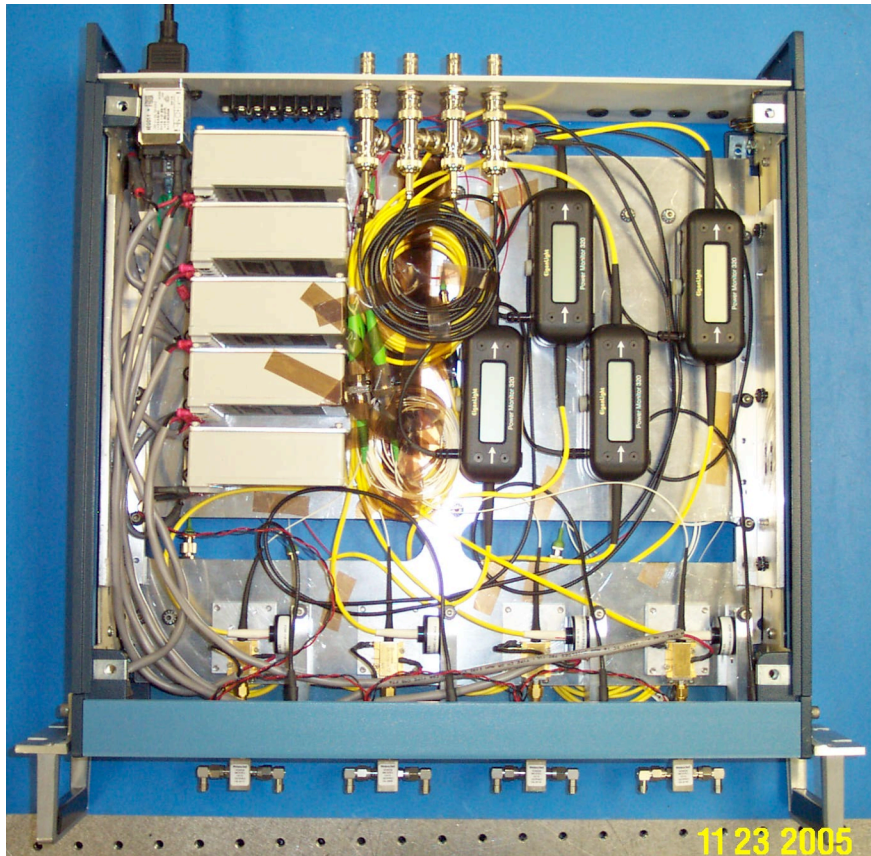
LAO PDV Packages – A Summary

- 2U Rackmount 4-Channel PDV Box
 - Two prototypes built in November '05 for SCE program
 - Connectorized. Used on Centaur & Krakatau. Refurbished, to be used on Unicorn.
 - Two production models built in January '06 for M. Briggs
 - Welded. Used on Unicorn before the pause.
- 3U Rackmount 4-Channel PDV Box
 - One unit built in February '06 for B. Jensen
 - Original LLNL design.
- Single-Point PDV Box
 - One prototype built in June '06 for STL

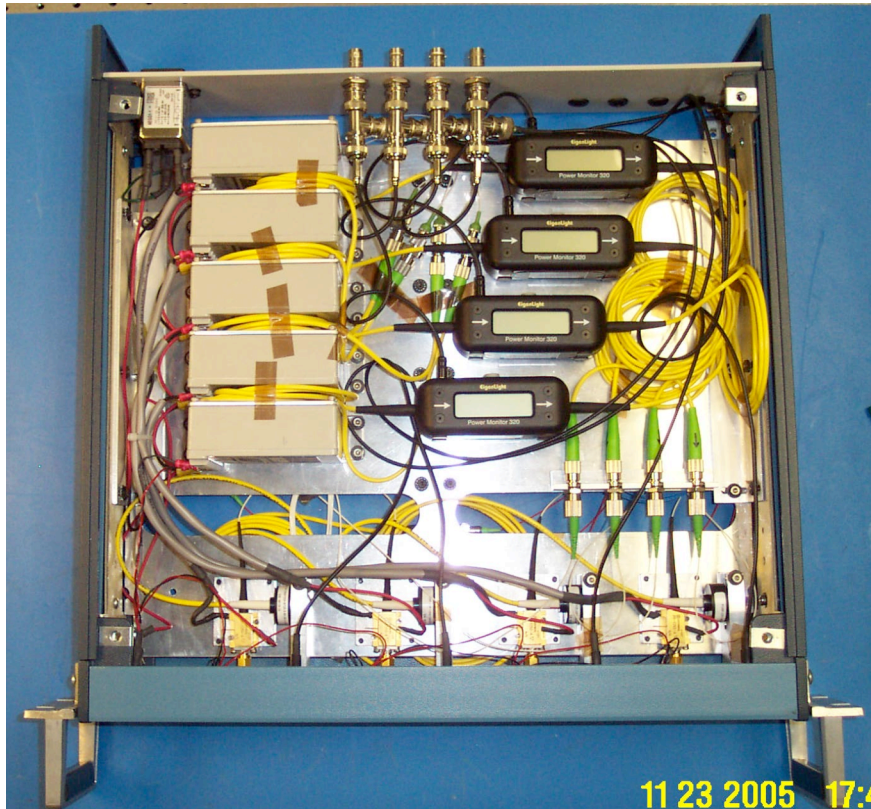
2U Rackmount 4-Channel Prototype – CAD Model



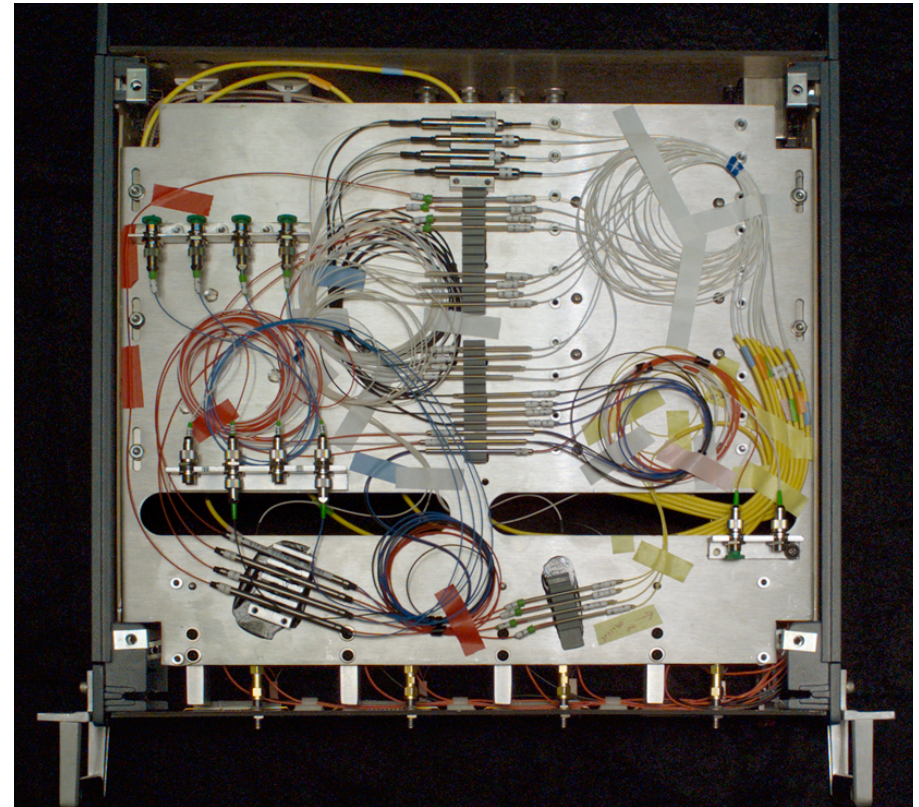
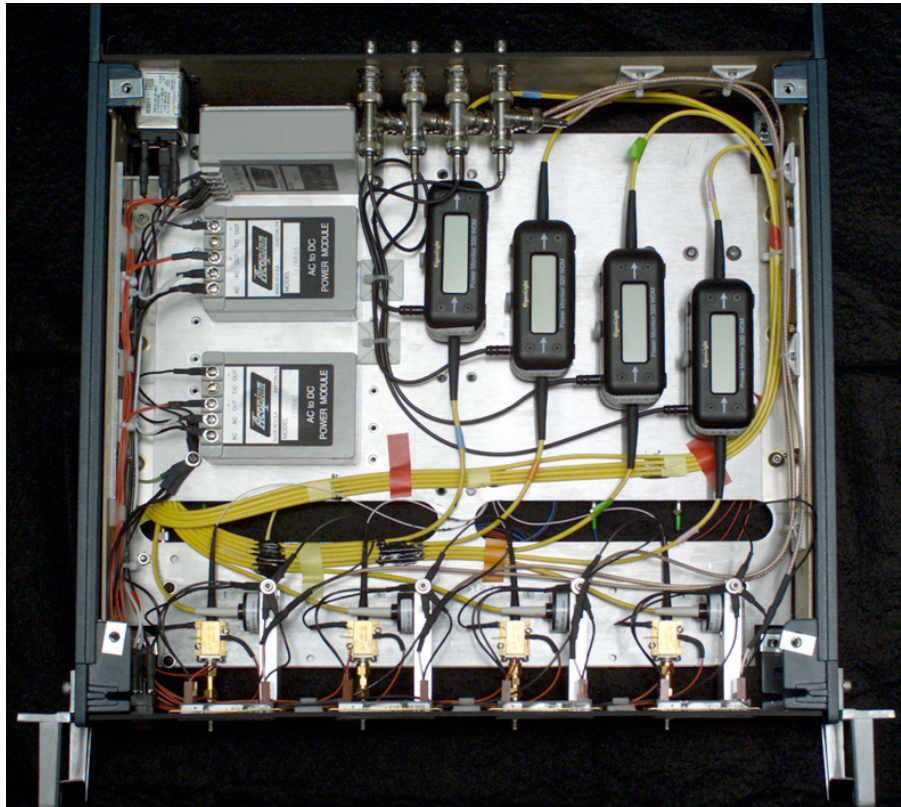
2U Rackmount 4-Channel Prototype – 1st Unit



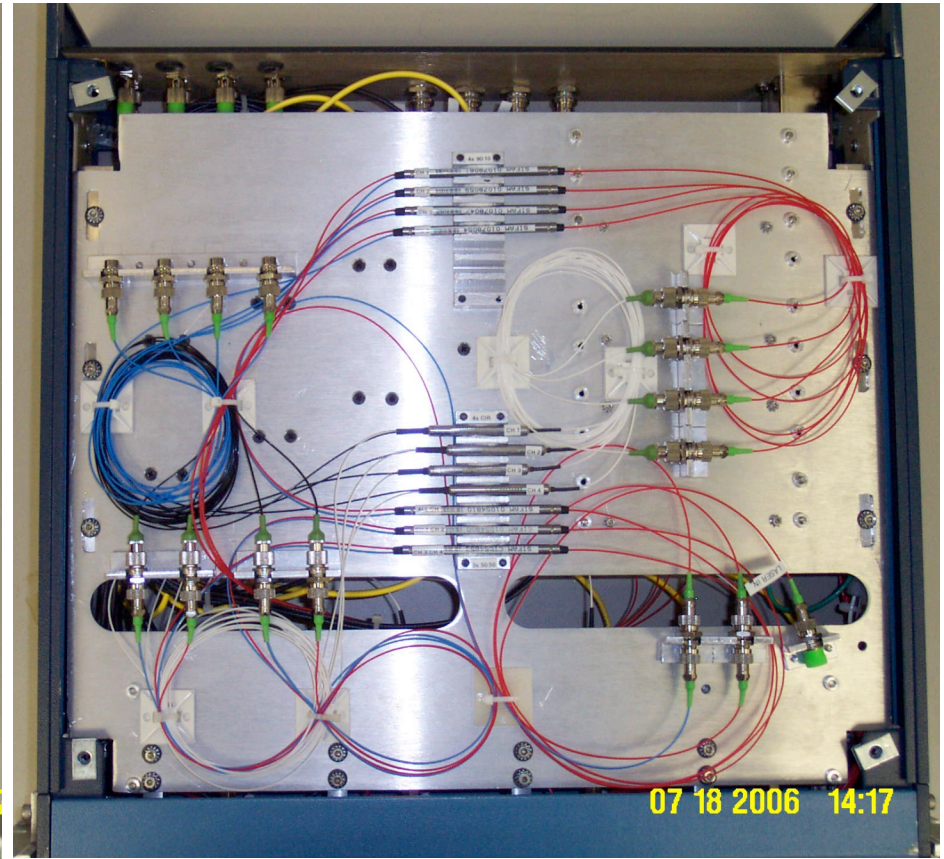
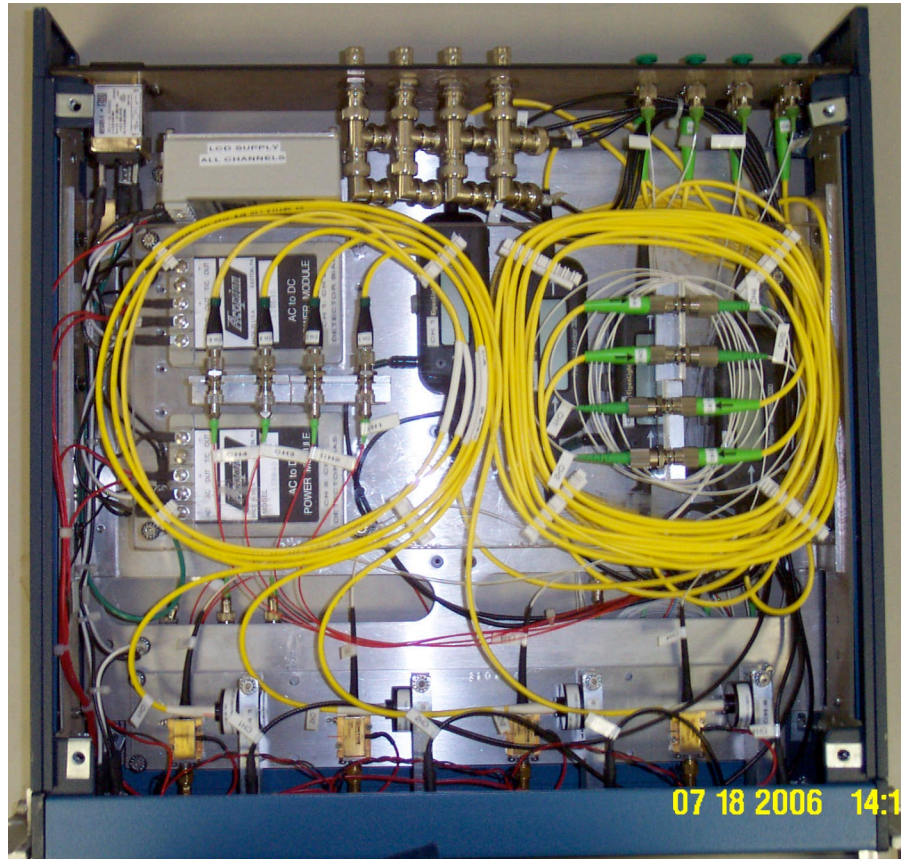
2U Rackmount 4-Channel Prototype – 2nd Unit



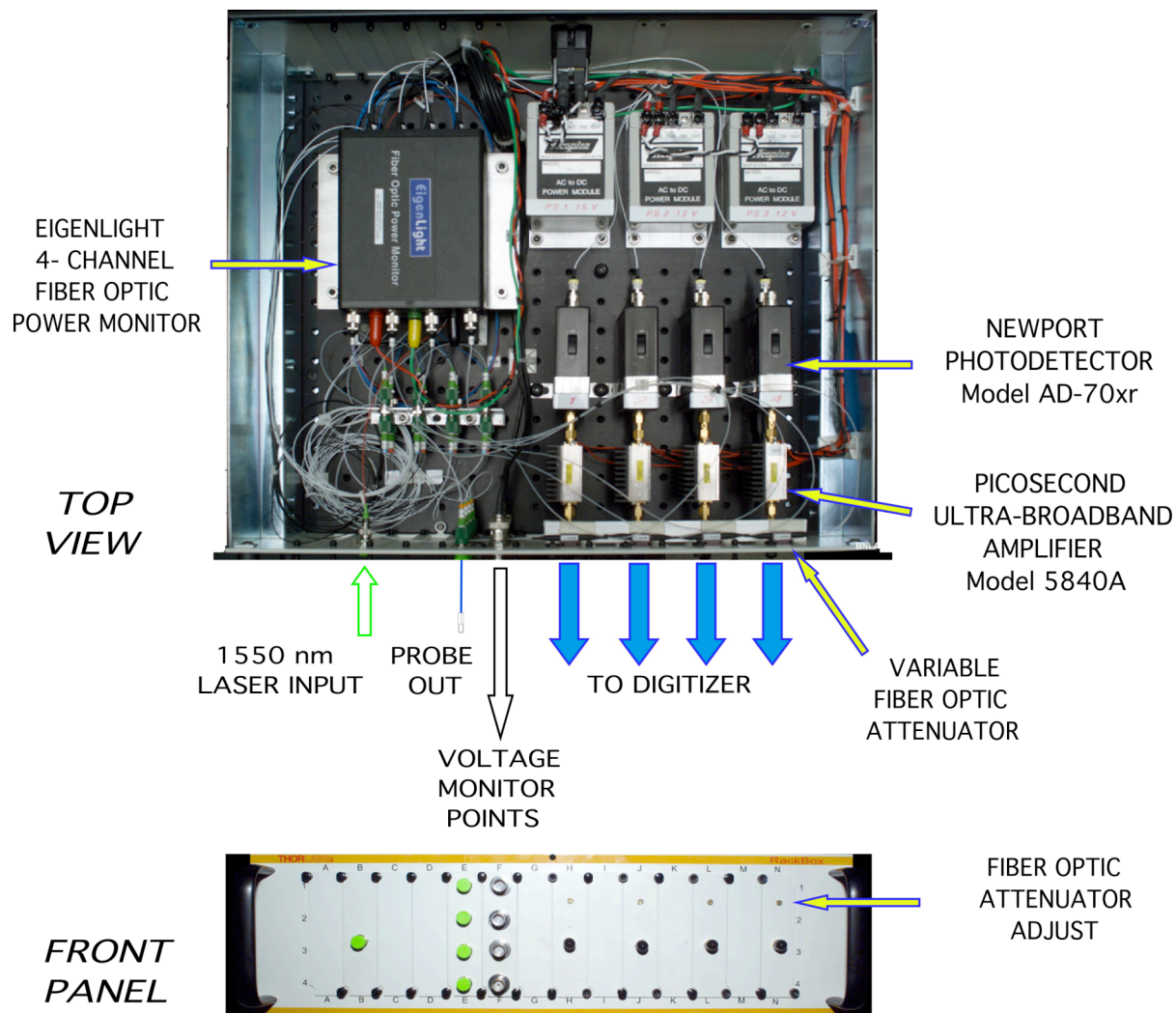
2U Rackmount 4-Channel Production Units



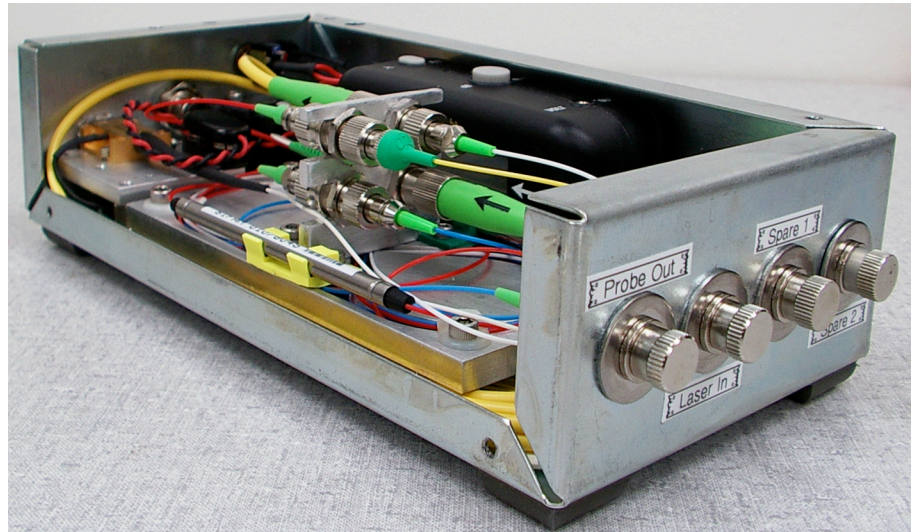
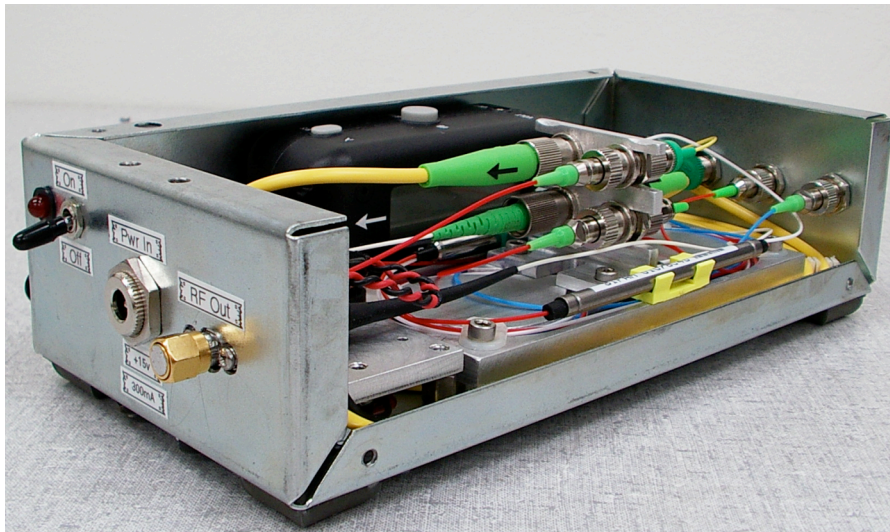
2U Rackmount Prototype Refurbishment



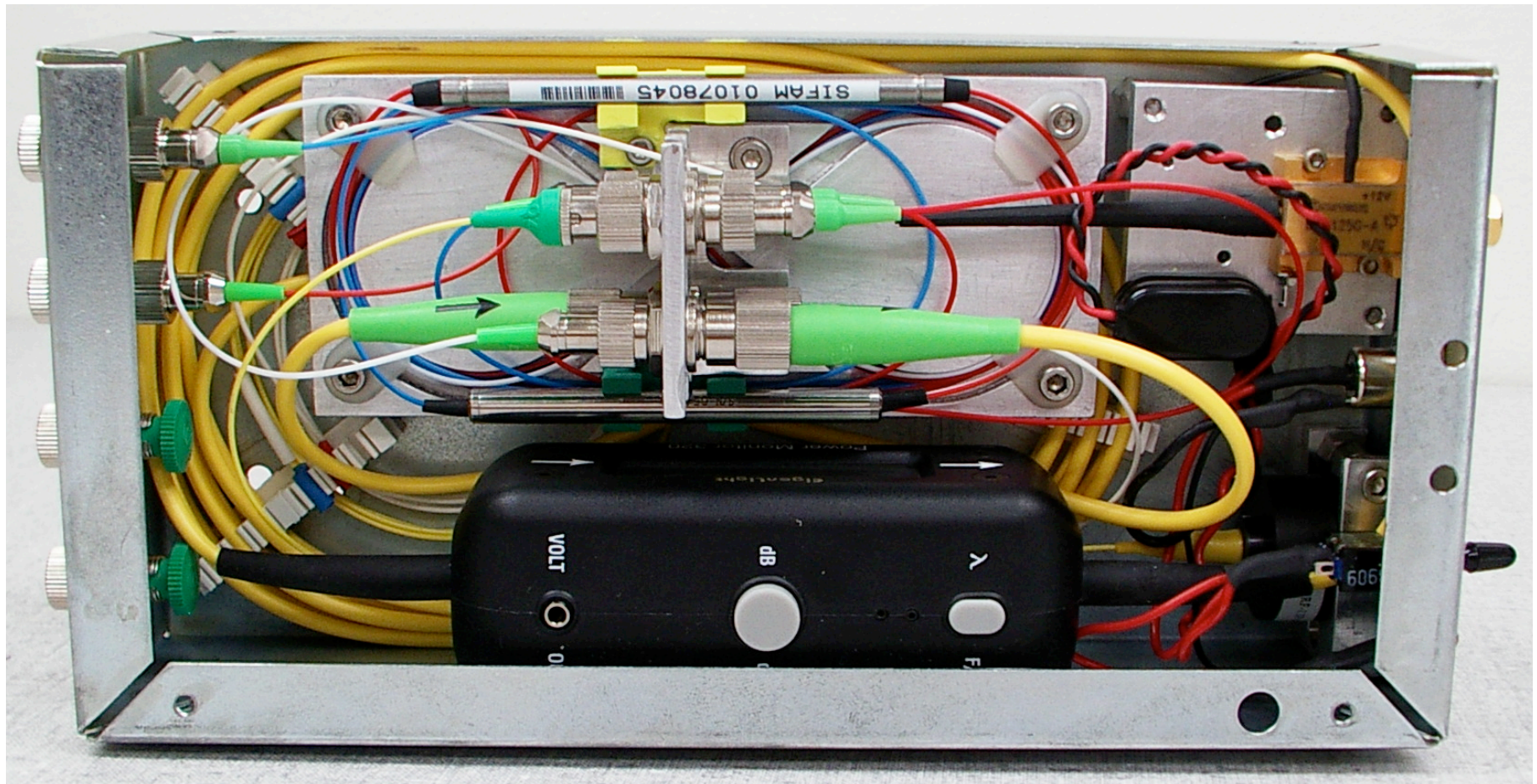
3U Rackmount 4-Channel Unit – LLNL Design



Prototype Single-Point PDV

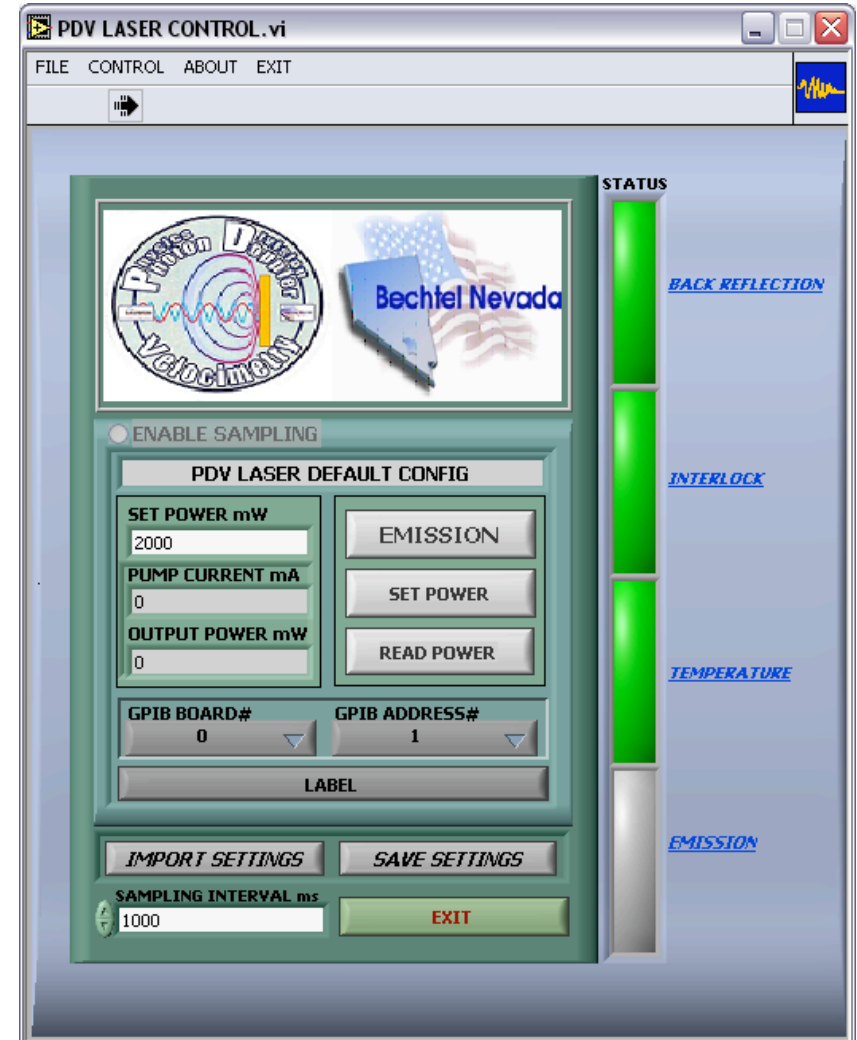


Prototype Single-Point PDV – Cont.



IPG Laser Control Software

- LabView Run-Time App.
 - Developed by Bart Briggs at LAO
 - Can control multiple lasers
 - Enables remote operation
 - Created for and refined on Kerinei, Centaur & Krakatau SCEs
 - Release version will soon be available for use on Unicorn SCE



LAO PDV Development Team

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